

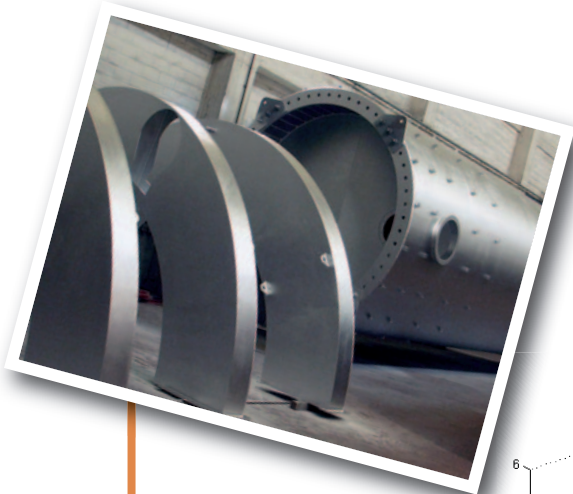
To avoid resonance and fatigue problems, we advise that stacks can be equipped with anti-vibration dampers, which can also be used as top platform or connecting platform for groups of chimneys.



Liquid damper used to increase height from 60m to 80m of two old stacks in Nigeria. FERBECK INDUSTRIAL CHIMNEYS made it possible with the abolition of helical strakes and the design and erection of these dampers.

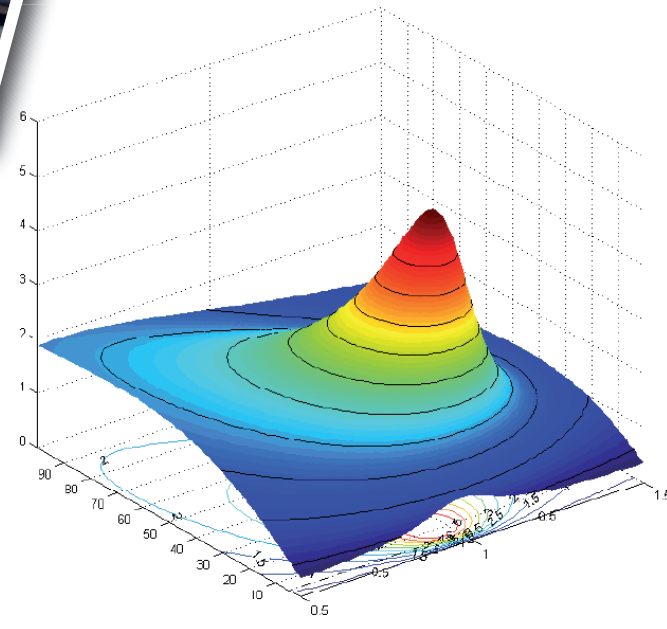
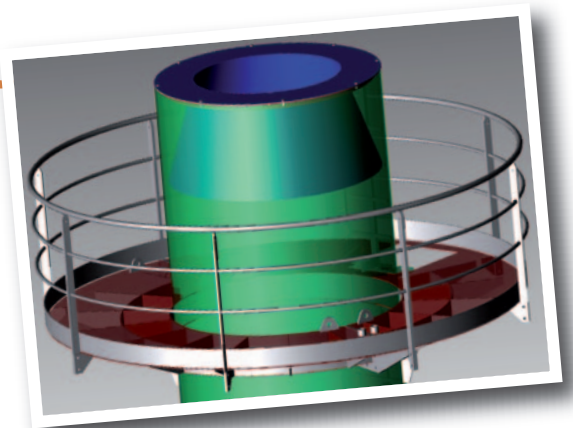


Design, manufacturing and installation of a “viscous” 42T damper at the top of a 183m concrete stack. World record!!! This implementation was necessary because of the vibrations caused by interferences generated by the presence of a new 200m stack built 100m away from the first one. The performance led by FERBECK INDUSTRIAL CHIMNEYS included the study of the interferences, the definition of the dimensioning parameters, the design, the manufacturing and the installation on site.



Elements of a liquid damper, used as a top platform with a manhole connected to the safety ladder.

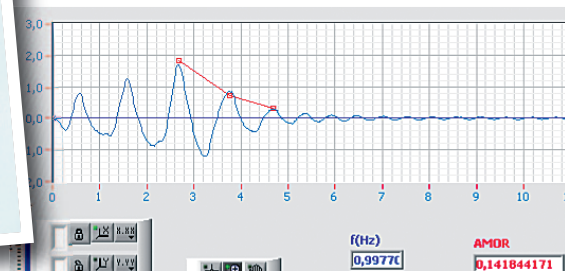
3D representation of a damper integrated in the top platform of a steel stack.



Damper equivalent according to the frequency ratio and the internal dampening rate.



Installation of a damper on an existing chimney.



Efficiency measurement curve of a damper in situ.

